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Field demonstration of large scale stationary power and CHP fuel cell system

GA No. 621256



Demonstration of a combined heat and power 2MWe PEM fuel cell generator and integration into an existing chlorine production plant

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Publishable summary

Johnson Matthey Fuel Cells has developed a membrane electrode assembly (MEA) for long-term stationary power applications, suitable for installation into Nedstack Fuel Cell Technology stacks which in turn will be installed in a 2MWe power plant fuelled by waste hydrogen from a chlor-alkali plant.

Following considerable development work, a predecessor MEA, requiring a large number of discrete operations to manufacture, has been replaced with a continuous high volume manufacturable MEA. Processes previously performed manually have been replaced by automated continuous processes.

The initial performance and stability of the MEA have been maintained. Nedstack FCT has indicated their acceptance of the MEA, and volume manufacturing at a high production rate is under way at JMFC. in task 6.3 and 6.4.

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